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| 10/531,609 | 11/01/2005 | Elias Klemm | 1-17010 | 8173 |
| MARSHALL & MELHORN, LLC FOUR SEAGATE - EIGHTH FLOOR TOLEDO, OH 43604 | | • | EXAMINER | |
| | | t . | GALLIS, DAVID E | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/531.609 KLEMM ET AL. Office Action Summary Examiner Art Unit DAVID E. GALLIS 1625 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 14 April 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 13-25 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 13-25 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage

U.S. Patent and Trademark Offic PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/08)
 Paper No(s)/Mail Date _______.

Attachment(s)

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5 Notice of Informal Patent Application

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Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Ī. Claims 13 through 19, 24 and 25 drawn to a process for the recovery of a gaseous phase from a liquid fluid on a commercial scale by at least partial evaporation of the liquid fluid or of at least one of the components contained therein or by setting free one of the components formed by thermal transition of the liquid fluid in a modular falling- film evaporator consisting of stacked vertical or inclined plate-type modules, with at least every other module being constructed as an evaporator module, and gaptype evaporation chambers between mutually facing side surfaces of essentially equal-sized rectangular modules, wherein a falling-film evaporator comprising evaporator modules is used, and the evaporator modules feature a set of parallel micro-channels at least on one side facing the gap-type evaporation chambers, the orientation of the microchannels corresponding to the direction of the liquid fluid stream flowing therein by gravity and/or capillary forces and the evaporation chambers of which are open at the top and/or bottom essentially over the entire width of the module, the liquid fluid being fed to the micro-channels by a feeding device, the micro-channels being indirectly heated by a heat exchange fluid passing through the evaporator modules, and the gaseous phase formed being withdrawn from the evaporation chambers that are open at the top and/or bottom, classified in various classes and subclasses.

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II. Claims 20 through 23 drawn to a device for implementing the process according to claim 13 on a commercial scale, said device comprising a modular falling-film evaporator containing at least one stack of vertical or inclined plate-type modules, at least every other module being designed as an evaporator module in that it features one or several spaces, through which a heat exchange fluid can flow, and gap-shaped evaporation chambers between the side surfaces of essentially equal-sized rectangular modules, with the surfaces facing each other, wherein the evaporator modules feature a set of parallel micro-channels on at least one side facing the gap-type evaporation chambers, the orientation of the micro-channels corresponding to the direction of the liquid fluid stream flowing therein by gravity and/or capillary forces, and a device for feeding a liquid fluid into the micro- channels, the gap-type evaporation chambers being open at the top and/or bottom essentially over the entire width of the module, and that at least one stack being arranged in a vessel equipped with a device for withdrawing a gas phase and a device for withdrawing a liquid phase, classified in class 159 and various subclasses.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP §

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806.05(e)). In this case the apparatus and the process can be used for gas phase recovery of various different materials.

- 3. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
 - (a) the inventions have acquired a separate status in the art in view of their different classification;
 - (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
 - (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
 - (d) the prior art applicable to one invention would not likely be applicable to another invention;
 - (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time

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of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Gallis whose telephone number is 571-272-9068. The examiner can normally be reached on Mon-Thur 8:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on 571-272-1600. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. Application/Control Number: 10/531,609 Page 6

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David E. Gallis Patent Examiner / Bernard Dentz/ Primary Examiner, Art Unit 1625